



Model Number

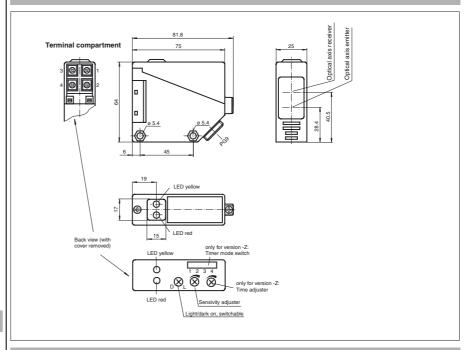
RLK39-8-2000/31/40a/116

Diffuse mode sensor with terminal compartment

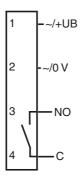
Features

- Infrared light
- Light/dark ON, switchable
- Protection degree IP67

Dimensions



Electrical connection



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Mounting bracket for RL39 series Sen-

Accessories

OMH-RL39

sors

Technical data General specifications Detection range 0 ... 2000 mm Adjustment range 75 ... 2000 mm Reference target standard white 200 mm x 200 mm Light source Light type modulated infrared light Approvals CE 10000 Lux Ambient light limit Indicators/operating means Function display LED yellow: switching state LED red: pre-fault indication Controls Detection range adjuster, light/dark switch **Electrical specifications** 12 ... 240 V DC Operating voltage U_{B} 24 ... 240 V AC (50 ... 60 Hz) 10 % Ripple No-load supply current ≤ 35 mA I_0 \leq 3 VA Power consumption P_0 Time delay before availability ≤ 50 ms t_v Output Switching type light/dark switching Signal output 1 relay output Switching voltage ≤ 240 V AC max. 3 A Switching current ≤ 25 Hz Switching frequency Response time \leq 20 ms Standard conformity Standards EN 60947-5-2 **Ambient conditions** -25 ... 55 °C (-13 ... 131 °F) Ambient temperature Storage temperature -40 ... 70 °C (-40 ... 158 °F) Mechanical specifications Protection degree IP67 terminal compartment PG9, ≤ 2.5 mm² Connection Material

Compliance with standards and directi-

ves

Mass

Directive conformity

Housing

Optical face

EMC Directive 2004/108/EC EN 60947-5-2

Approvals and certificates

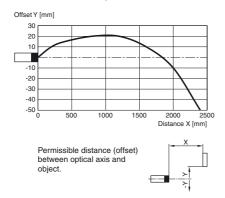
Certified by China Compulsory Certification (CCC) CCC approval

PBT

PMMA 110 g

Curves/Diagrams

Characteristic response curve



Additional Information

Conventional use:

Date of issue: 2010-08-04 088827_ENG.xml Release date: 2010-08-04 15:26

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The reflex light scanner contains the emitter and receiver in a single housing. The light from transmitter is beamed back from the recorded object is evaluated by the receiver. The detection range depend on the object colour. With dark or very small objects the detection range reduces.

Mounting instructions:

The sensor can be fastened over the through-holes directly or with the included mounting bracket.

The base surface must be flat to avoid distorting the housing during mounting. It is advisable to secure the bolts and screws with washers so that the sensor does not become misaligned.

Instructions for adjustment:

Adjust the sensor on the background. If the yellow LED illuminates, the detection range needs to be reduced with the detection range adjuster, until the yellow LED goes off.

Object detection check:

Position the object into the light beam. Position light spot on object. If the object is detected, the yellow LED illuminated. If it does not light up, further to adjust the detection range with the potentiometer, until the yellow LED lights up.

The red LED flashes if reception deteriorates (e.g. soiled lenses or by maladjustment) and when falling short of the stability control.

lustration:

We recommend that you clean the optical interfaces and check the plug-in connections and screw connections at regular intervals.

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